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January 10, 1962

Declass Review by NIMA / DoD

SPECIFICATIONS FOR PRECISION ENLARGER

1. Enlarger shall be designed and fabricated to accept roll negatives from 7 mm to 9-1/2" on standard United States Air Force spools 10" in diameter.
2. The lens will cover a negative format of 70 mm square and will have a resolution capability at the negative of:

160 lines per mm high contrast

130 lines per mm medium contrast

85 lines per mm low contrast

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3. The negative transport will be designed to operate manually without any physical damage to the film such as scratches or abrasions. It will further be designed to move in a direction transverse to the roll a sufficient distance to expose a 70 mm x 70 mm area of a 9-1/2" wide film at either edge of the wide film. Other film widths such as 5" and 7" will also be accommodated in the transport mechanism.
4. The basic design will be horizontal or vertical, depending on the selection of a lens which would dictate the over-all height or length.
5. The magnification range will be from three diameters to twelve diameters continuously variable.
6. Critical focusing will be accomplished with the use of a "Focatron" to be supplied by the purchaser.
7. The negative plane, lens plane and easel plane will be parallel to three minutes of arc throughout the entire magnification range. Two of the three planes will be movable manually and the third plane shall be fixed.

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Specifications for Precision Enlarger

- 42" x 42"
- 36" x 48"
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8. The easel will be of the vacuum type with sufficient pressure to hold a sheet of cut filmor paper 36" x 48" flat in a horizontal position without a cover.
 9. The illumination will be a high quality condenser focused system using a light source having a wave length emission best suited to the lens selected. The maximum exposure time at 12 diameters enlargement from a negative or positive having a D max. of 3.40 will not exceed 30 seconds on [REDACTED] #2 or equivalent.
 10. The focal plane will be optically flat glass and heat from the light source will not cause a temperature higher than 20° F above ambient temperature at the film plane in a two minute stationary position.
 11. The enlarger will be equipped with a timer from 0 to 60 second range which will activate a shutter on the lens or turn the light source on and off, depending on the type of light source used.
 12. The enlarger will be equipped with leveling screws (feet) and vibration dampening mounts.
 13. If a blower is required to cool the light source, it will be mounted externally or independently to the enlarger.
 14. Delivery and installation will be within 60 days after receipt of purchase order.
 15. Crating and packaging will be for delivery within continental limits of the U.S.A.
 16. The purchaser will be of any assistance necessary in the procurement of the lens for the enlarger. Prices quoted will be with and without lens.
 17. Our company would prefer to perform this contract on a CPFF contract and the preliminary cost less lens is [REDACTED] estimated. STATINTL

Very truly yours,

[REDACTED]

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cc:

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